

C.O.C.: ---

**REPORT No. B18-25321**

**Report To:**

**ATCO Structure & Logistics Services Ltd**

PO Box 88, Hamlet of Resolute Bay

NU X0A 0V0 Canada

**Attention:** Philip Chubbs

**Caduceon Environmental Laboratories**

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 23-Aug-18

JOB/PROJECT NO.: Resolute Bay (Sewage Outfall)

DATE REPORTED: 30-Aug-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

|                            |         |         | Client I.D.      | Sewer Outfall      |           |  |  |
|----------------------------|---------|---------|------------------|--------------------|-----------|--|--|
|                            |         |         | Sample I.D.      | B18-25321-1        |           |  |  |
|                            |         |         | Date Collected   | 14-Aug-18          |           |  |  |
| Parameter                  | Units   | R.L.    | Reference Method | Date/Site Analyzed |           |  |  |
| Total Suspended Solids     | mg/L    | 3       | SM 2540D         | 24-Aug-18/O        | 25        |  |  |
| BOD                        | mg/L    | 3       | SM 5210B         | 24-Aug-18/O        | 25        |  |  |
| Nitrite (N)                | mg/L    | 0.1     | SM4110C          | 23-Aug-18/O        | < 0.1     |  |  |
| Nitrate (N)                | mg/L    | 0.1     | SM4110C          | 23-Aug-18/O        | < 0.1     |  |  |
| Ammonia (N)-Total          | mg/L    | 0.01    | SM4500-NH3-H     | 28-Aug-18/K        | 2.18      |  |  |
| Chloride                   | mg/L    | 0.5     | SM4110C          | 23-Aug-18/O        | 24.6      |  |  |
| Conductivity @25°C         | µmho/cm | 1       | SM 2510B         | 23-Aug-18/O        | 399       |  |  |
| Sulphate                   | mg/L    | 1       | SM4110C          | 23-Aug-18/O        | 34        |  |  |
| Alkalinity(CaCO3) to pH4.5 | mg/L    | 5       | SM 2320B         | 23-Aug-18/O        | 123       |  |  |
| Aluminum                   | mg/L    | 0.01    | SM 3120          | 28-Aug-18/O        | 0.06      |  |  |
| Arsenic                    | mg/L    | 0.0005  | EPA 200.8        | 23-Aug-18/O        | < 0.0005  |  |  |
| Calcium                    | mg/L    | 0.02    | SM 3120          | 28-Aug-18/O        | 33.9      |  |  |
| Cadmium                    | mg/L    | 0.005   | SM 3120          | 28-Aug-18/O        | < 0.005   |  |  |
| Cobalt                     | mg/L    | 0.005   | SM 3120          | 28-Aug-18/O        | 0.009     |  |  |
| Copper                     | mg/L    | 0.002   | SM 3120          | 28-Aug-18/O        | 0.040     |  |  |
| Chromium                   | mg/L    | 0.002   | SM 3120          | 28-Aug-18/O        | < 0.002   |  |  |
| Iron                       | mg/L    | 0.005   | SM 3120          | 28-Aug-18/O        | 0.088     |  |  |
| Lead                       | mg/L    | 0.02    | SM 3120          | 28-Aug-18/O        | < 0.02    |  |  |
| Potassium                  | mg/L    | 0.1     | SM 3120          | 28-Aug-18/O        | 4.7       |  |  |
| Magnesium                  | mg/L    | 0.02    | SM 3120          | 28-Aug-18/O        | 7.42      |  |  |
| Manganese                  | mg/L    | 0.001   | SM 3120          | 28-Aug-18/O        | 0.006     |  |  |
| Mercury                    | mg/L    | 0.00002 | SM 3112 B        | 30-Aug-18/O        | < 0.00002 |  |  |
| Nickel                     | mg/L    | 0.01    | SM 3120          | 28-Aug-18/O        | < 0.01    |  |  |
| Sodium                     | mg/L    | 0.2     | SM 3120          | 28-Aug-18/O        | 15.6      |  |  |
| Zinc                       | mg/L    | 0.005   | SM 3120          | 28-Aug-18/O        | 0.068     |  |  |
| Hardness (as CaCO3)        | mg/L    | 1       | SM 3120          | 28-Aug-18/O        | 115       |  |  |
| Total Organic Carbon       | mg/L    | 0.2     | EPA 415.1        | 23-Aug-18/O        | 2.5       |  |  |



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Tahir Yapici Ph.D

Lab Supervisor

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

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SAMPLE MATRIX: Waste Water

WATERWORKS NO.

|                    |              |             | <b>Client I.D.</b>      | Sewer Outfall             |       |  |  |  |
|--------------------|--------------|-------------|-------------------------|---------------------------|-------|--|--|--|
|                    |              |             | <b>Sample I.D.</b>      | B18-25321-1               |       |  |  |  |
|                    |              |             | <b>Date Collected</b>   | 14-Aug-18                 |       |  |  |  |
| <b>Parameter</b>   | <b>Units</b> | <b>R.L.</b> | <b>Reference Method</b> | <b>Date/Site Analyzed</b> |       |  |  |  |
| pH @25°C           | pH Units     |             | SM 4500H                | 23-Aug-18/O               | 7.67  |  |  |  |
| Oil & Grease-Total | mg/L         | 1.0         | SM 5520                 | 27-Aug-18/K               | 3.6   |  |  |  |
| Phenolics          | mg/L         | 0.002       | MOEE 3179               | 27-Aug-18/K               | 0.019 |  |  |  |
| Fecal Coliform     | cfu/100mL    | 1           | MOE E3371               | 23-Aug-18/O               | 6000  |  |  |  |

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